

FIG. 1A

TN1 TN2 TNO TN1 TN2 TNO TN1 TN2 TNO

FIG. 1B

FIG. 2

| TN0     | TN1     | TN2     |
|---------|---------|---------|
| $F_n=0$ | $F_n=0$ | $F_n=0$ |
| $F_n=1$ | $F_n=1$ | $F_n=1$ |
| $F_n=2$ | $F_n=2$ | $F_n=0$ |
| $F_n=0$ | $F_n=3$ | $F_n=1$ |
| $F_n=1$ | $F_n=4$ | $F_n=0$ |
| $F_n=2$ | $F_n=0$ | $F_n=1$ |
| $F_n=0$ | $F_n=1$ | $F_n=0$ |
| $F_n=1$ | $F_n=2$ | $F_n=1$ |
| $F_n=2$ | $F_n=3$ | $F_n=0$ |
| $F_n=0$ | $F_n=4$ | $F_n=1$ |
| $F_n=1$ | $F_n=0$ | $F_n=0$ |
| $F_n=2$ | $F_n=1$ | $F_n=1$ |
| $F_n=0$ | $F_n=2$ | $F_n=0$ |
| $F_n=1$ | $F_n=3$ | $F_n=1$ |
| $F_n=2$ | $F_n=4$ | $F_n=0$ |
| $F_n=0$ | $F_n=0$ | $F_n=1$ |
| $F_n=1$ | $F_n=1$ | $F_n=0$ |
| $F_n=2$ | $F_n=2$ | $F_n=1$ |
| • • •   | • • •   | • • •   |

FIG. 3A

| FRAME (51) | TS FRAME (52) | TIME GROUP 1 |   |   |   |   |   |   | TIME GROUP 2 |      |   |   |   |   |   | TIME GROUP 3 |   |      |   |   |   |   | TIME GROUP 4 |   |   |      |   |   |   |   |   |   |  |
|------------|---------------|--------------|---|---|---|---|---|---|--------------|------|---|---|---|---|---|--------------|---|------|---|---|---|---|--------------|---|---|------|---|---|---|---|---|---|--|
|            |               | 0            | 1 | 2 | 3 | 4 | 5 | 6 | 7            | 0    | 1 | 2 | 3 | 4 | 5 | 6            | 7 | 0    | 1 | 2 | 3 | 4 | 5            | 6 | 7 | 0    | 1 | 2 | 3 | 4 | 5 | 6 |  |
| 0          | 0             | FCCH         |   |   |   |   |   |   |              | FCCH |   |   |   |   |   |              |   | FCCH |   |   |   |   |              |   |   | FCCH |   |   |   |   |   |   |  |
| 1          | 1             | SCH          |   |   |   |   |   |   |              | SCH  |   |   |   |   |   |              |   | SCH  |   |   |   |   |              |   |   | SCH  |   |   |   |   |   |   |  |
| 2          | 2             | BCCH         |   |   |   |   |   |   |              | BCCH |   |   |   |   |   |              |   | BCCH |   |   |   |   |              |   |   | BCCH |   |   |   |   |   |   |  |
| 3          | 3             | BCCH         |   |   |   |   |   |   |              | BCCH |   |   |   |   |   |              |   | BCCH |   |   |   |   |              |   |   | BCCH |   |   |   |   |   |   |  |
| 4          | 4             | BCCH         |   |   |   |   |   |   |              | BCCH |   |   |   |   |   |              |   | BCCH |   |   |   |   |              |   |   | BCCH |   |   |   |   |   |   |  |
| 5          | 5             | BCCH         |   |   |   |   |   |   |              | BCCH |   |   |   |   |   |              |   | BCCH |   |   |   |   |              |   |   | BCCH |   |   |   |   |   |   |  |
| 6-20       | 6-20          |              |   |   |   |   |   |   |              |      |   |   |   |   |   |              |   |      |   |   |   |   |              |   |   |      |   |   |   |   |   |   |  |
| 21         | 21            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 22         | 22            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 23         | 23            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 24         | 24            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 25-33      | 25-33         |              |   |   |   |   |   |   |              |      |   |   |   |   |   |              |   |      |   |   |   |   |              |   |   |      |   |   |   |   |   |   |  |
| 34         | 34            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 35         | 35            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 36         | 36            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 37         | 37            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 38-46      | 38-46         |              |   |   |   |   |   |   |              |      |   |   |   |   |   |              |   |      |   |   |   |   |              |   |   |      |   |   |   |   |   |   |  |
| 47         | 47            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 48         | 48            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 49         | 49            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |
| 50         | 50            | C            |   |   |   |   |   |   |              | C    |   |   |   |   |   |              |   | C    |   |   |   |   |              |   |   | C    |   |   |   |   |   |   |  |

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FIG. 3B

FIG. 4

